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(54) MODIFIED ACARIAN
MAIN ALLERGEN AND ITS
PRODUCTION

(57) Abstract:

PURPOSE: To obtain the subject allergen useful as the therapeutic agent for allergic diseases caused by acarian allergen by employing a gene coding a modified Der-fil produced by substituting a specific amino acid residue of an acarian main allergen Der-fil with alanine.

I Asp Glu Val Asp Val Lys Asp Cys Ile Asn Asn Glu Ile Lys Lys Val
I GAT CAA GTC GAT GTT AAA GAT TGT GGC AAC GAT GAA ATC AAA AAA GTA

CONSTITUTION: A prokaryote or eucaryote is transformed with a replicated vector containing a gene coding a modified Der-fil, and subsequently cultured. A modified acarian main allergen is collected from the culture product. The modified acarian main allergen lowers the IgE antibody-binding activity, and inhibits wild type Der-fil binding to the IgE antibody. The modified Der-fil is produced by substituting alanine for one of the No.4, 6, 7, 10, 11, 12, and 127 amino acids of acarian main allergen Der-fil. A gene coding the acarian main allergen Der-fil has a DNA sequence of the formula, etc.

118 Asp Asn Gly Val Leu Ala Cys Ala Ile Ala Thr His Ala Lys Ile Arg
387 GAT AAT GGT GTT TTT GCT TGC GGT ATT GCT ACC CAC GGT AAA ATC GGT

129 Asp ***

385 GAT TAA

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